

INTERNATIONAL SEARCH REPORT

International application No.
PCT/AU2004/000788

A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. 7: A61K 38/39; A61P 19/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
DWPI, MEDLINE

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
DWPI, MEDLINE: collagen, cartilage, connective tissue, NC4, arthritis, inflammation, autolysis, digestion, glycosaminoglycan, GAG

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5925736 A (Neff et al., 20 July 1999). See the whole document, particularly the abstract, column 2 lines 1-58, column 4 lines 45-53, column 7 lines 17-67, Table I, column 9 line 32 – column 10 line 34, and claims 1-9.	1-18, 21-28
X	WO 2001/093833 A2 (The Procter & Gamble Company, 13 December 2001) See the whole document, particularly the abstract, summary of the invention, page 6 under the heading "Cartilage", and claims 1-2.	1-11, 16-18, 21-27
X	WO 2001/093831 A2 (The Procter & Gamble Company, 13 December 2001) See the whole document, particularly the abstract, summary of the invention, pages 8-9 under the heading "Cartilage", and claims 1-3.	1-11, 16-18, 21-27
P, A	WO 2003/062279 A1 (Chondrotec Pty Limited, 31 July 2003) The whole document.	1-28

☒ Further documents are listed in the continuation of Box C

☒ See patent family annex

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search
31 August 2004

Date of mailing of the international search report
08 SEP 2004

Name and mailing address of the ISA/AU
AUSTRALIAN PATENT OFFICE
PO BOX 200, WODEN ACT 2606, AUSTRALIA
E-mail address: pct@ipaustalia.gov.au
Facsimile No. (02) 6285 3929

Authorized officer
JASON MACKENZIE
Telephone No : (02) 6283 7934

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Myers LK, Pihlajamaa T, Brand DD, Cremer MA, Bodo M, Ala-Kokko L, Kang AH. Immunogenicity of recombinant type IX collagen in murine collagen-induced arthritis. Arthritis Rheum. 2002 Apr;46(4):1086-93. The whole document	1-18, 21-28
X	Vasios G, Nishimura I, Konomi H, van der Rest M, Ninomiya Y, Olsen BR. Cartilage type IX collagen-proteoglycan contains a large amino-terminal globular domain encoded by multiple exons. J Biol Chem. 1988 Feb 15;263(5):2324-9. The whole document.	1-18, 21-28
X	Lu S, Holmdahl R. Different therapeutic and bystander effects by intranasal administration of homologous type II and type IX collagens on the collagen-induced arthritis and pristane-induced arthritis in rats. Clin Immunol. 1999 Jan;90(1):119-27.	1-11, 21-26

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/AU2004/000788

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member			
US 5925736		AU 46570/96	BR 9606753	CA 2210088	
		EP 0805686	FI 972929	HU 9800829	
		NO 973193	WO 9621458		
WO 0193833		AU 66648/01	AU 69730/01	BR 0111292	
		BR 0111378	CA 2408610	CA 2408611	
		EP 1289531	EP 1289532	US 2002132780	
		WO 0193831			
WO 0362279					
Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.					
END OF ANNEX					